

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: JOHN JAMES, et al

For: SINGLE STEP FOR THE SYNTHESIS OF NANOPARTICLES OF CERAMIC  
OXIDE POWDERS

Attorney Docket No.: U 013853-6

Commissioner of Patents and Trademarks  
Washington, D.C. 20231

Sir:

PRELIMINARY AMENDMENT

Please amend the above-identified application as follows.

IN THE CLAIMS

1. (Amended) A single step process for synthesis of nanoparticles of phase  
pure ceramic oxides of a multi-component system comprising one or more metal ions, said  
process comprising,

(a) preparing a solution containing the metal ions in  
stoichiometric ratio by dissolving their soluble salts in an organic solvent or in water,

CERTIFICATE UNDER 37 CFR 1.10

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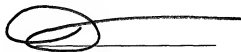
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- (b) preparing a precursor by complexing the metal ions with a complexing agent while keeping the ratio of the charges of the acid to the charges of the metal ions as unity;
- (c) adjusting the nitrate/ammonia content in the system; and
- (d) heating the system from room temperature to 250-300°C.

Respectfully submitted,



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1. (Amended) A single step process for [the] synthesis of nanoparticles of phase pure ceramic oxides of a [single or a] multi-component system comprising one or more metal ions, said process comprising,

(a) [(e)] preparing a solution containing [all] the [required] metal ions in stoichiometric ratio by dissolving their [respective] soluble salts in an organic solvent or in water,

(b) [(f)] preparing a precursor by complexing the metal ions with a complexing agent while keeping the ratio of the charges of the acid to the charges of the metal ions as unity;

(c) [(g)] adjusting the nitrate/ammonia content in the system;

and

(d) [(h)] heating the system from room temperature to 250-300°C.